

Title (en)
Robot cleaner and control method thereof

Title (de)
Reinigungsroboter und Steuerungsverfahren dafür

Title (fr)
Robot nettoyeur et son procédé de commande

Publication
EP 1936463 A3 20120530 (EN)

Application
EP 07012253 A 20070622

Priority
KR 20060118431 A 20061128

Abstract (en)
[origin: EP1936463A2] A control method of a robot cleaner includes: driving a driving part to rotate (S103) a cleaner main body when a obstacle sensor detects (S102) an obstacle, measuring (S104) a rotation angle of the cleaner main body in real-time, and comparing (S105) the measured total rotation angle with a predetermined reference rotation angle so as to determine that the obstacle sensor is broke down when the total rotation angle is more than the reference rotation angle and thus to stop (S106) the driving part. With this method, the robot cleaner can make the diagnosis of the breakdown to the obstacle sensor by itself to stop a driving thereof, and inform (S107) a user of the breakdown diagnosis to the obstacle sensor.

IPC 8 full level
G05D 1/02 (2006.01)

CPC (source: EP KR)
A47L 9/00 (2013.01 - KR); **A47L 9/28** (2013.01 - KR); **G05D 1/0242** (2024.01 - EP); **G05D 1/027** (2024.01 - EP)

Citation (search report)
• [A] US 2002016649 A1 20020207 - JONES JOSEPH L [US]
• [A] US 2004111184 A1 20040610 - CHIAPPETTA MARK J [US], et al

Cited by
US9928459B2; EP3376331A1; CN104027040A

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
EP 1936463 A2 20080625; **EP 1936463 A3 20120530**; KR 100767120 B1 20071017; RU 2342898 C1 20090110

DOCDB simple family (application)
EP 07012253 A 20070622; KR 20060118431 A 20061128; RU 2007111084 A 20070327